



TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER XY-LowPressure-USNP U.S. APPLICATION NO. 10/523268 (see 37 CFR 1.5)
INTERNATIONAL APPLICATION NO. PCT/US2003/024460	INTERNATIONAL FILING DATE 01 August 2003 (01/08/2003)	PRIORITY DATE CLAIMED 01 August 2002 (01/08/2002)
TITLE OF INVENTION Low Pressure Sperm Cell Separation System		
APPLICANT(S) FOR DO/EO/US John L. Schenk, George E. Seidel, Tae Kwang Suh		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
Items 11 to 20 below concern document(s) or information included:		
11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: firm letter of transmittal; Certificate of Express Mailing for each document; return postcard		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/523268		INTERNATIONAL APPLICATION NO. PCT/US2003/024460		ATTORNEY'S DOCKET NUMBER XY-LowPressure-USNP	
21. The following fees are submitted:				Applicant use	Office use only
<input checked="" type="checkbox"/> a) Basic national fee..... \$300.00				\$	
<input checked="" type="checkbox"/> b) Examination fee..... \$200.00				\$	
<input checked="" type="checkbox"/> c) Search fee..... \$500.00				\$	
TOTAL OF ABOVE CALCULATIONS = \$1000.00				\$ 1,000.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		x \$250.00	\$ 0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ 130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	47 - 20 =	27	x \$50.00	\$ 1,350.00	
Independent claims	3 - 3 =	0	x \$200.00	\$ 0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$ 0.00	
TOTAL OF ABOVE CALCULATIONS =				\$ 2,480.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$	
SUBTOTAL =				\$ 2,480.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$ 2,480.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
TOTAL FEES ENCLOSED =				\$ 2,480.00	
Amount to be refunded:					\$
Amount to be charged					\$
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. _____. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
<p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p>					
<p>SEND ALL CORRESPONDENCE TO:</p> <p>Nicole A. Ressue Santangelo Law Offices, P.C. 125 South Howes, Third Floor Fort Collins, CO 80521</p>					
				<p><i>Nicole A. Ressue</i> 01/31/2005 SIGNATURE</p> <p>Nicole A. Ressue NAME</p> <p>PTO Reg. No. 48,665 REGISTRATION NUMBER</p>	

Express Mail No: EV 562714059 US

IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE

Applicants: John L. Schenk, George E. Seidel, Tae Kwang Suh
Application Number:
Filed:
Title: Low Pressure Sperm Cell Separation System
TC/A.U:
Examiner:

International Application No: PCT/US2003/024460, Filed 01 August 2003
Original US Application: 60/400,971, Filed 01 August 2002

Assignee: XY, Inc. and COLORADO STATE UNIVERSITY through its agent
Colorado State University Research Foundation
Attorney Docket: XY-LowPressure-USNP
Customer No. 33549

LETTER OF TRANSMITTAL

Mail Stop PCT
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450.

Sir:

Enclosed for filing is a United States National Stage application under 35 U.S.C. §371 entitled "Low Pressure Sperm Cell Separation System", including the following documents:

1. a Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) concerning a filing under 35 U.S.C. 371 (FORM PTO-1390 (REV 12-2004));
2. an Application Data Sheet;
3. a Preliminary Amendment;
4. Powers of Attorney from XY, Inc. and COLORADO STATE UNIVERSITY through its agent Colorado State University Research Foundation;

5. an Information Disclosure Statement -- copies non-US references cited (Foreign Patent/Publications and Other Documents) will be sent under separate cover;
6. this Letter of Transmittal along with a Credit Card Payment Form authorized in the amount of \$2,480.00 for National Phase filing fee; and
7. Express Mail Certificates for each document and a Postcard Receipt for return to the undersigned.

Please confirm receipt of the documents by applying your date stamp and serial number on the enclosed postcard and returning it to me.

Please address all future correspondence to: Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, CO 80521.

I have this 31 day of January, 2005, either myself personally or through my direction of staff at this office, deposited all of the items in the above letter of transmittal with the United States Postal Service as Express Mail, postage prepaid, in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Dated this 31 day of January, 2005.

Respectfully Submitted,
SANTANGELO LAW OFFICES, P.C.

By: Nicole A. Ressue
Nicole A. Ressue
Attorney for Assignee
PTO No, 48,665
125 South Howes, Third Floor
Fort Collins, CO 80521
(970) 224-3100

10/523268

DT Rec'd PCT/PTO 31 JAN 2005

Express Mail No: EV 562714059 US

IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE

Applicants: John L. Schenk, George E. Seidel, Tae Kwang Suh
Application Number:
Filed:
Title: Low Pressure Sperm Cell Separation System
TC/A.U:
Examiner:

International Application No: PCT/US2003/024460, Filed 01 August 2003
Original US Application: 60/400,971, Filed 01 August 2002

Assignee: XY, Inc. and COLORADO STATE UNIVERSITY through its agent
Colorado State University Research Foundation
Attorney Docket: XY-LowPressure-USNP
Customer No. 33549

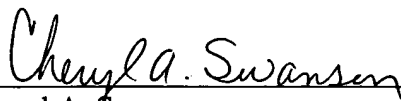
CERTIFICATE OF EXPRESS MAILING

I, Cheryl A. Swanson, hereby certify to the truth of the following items:

1. I am an employee of Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, Colorado 80521.

2. I have this day deposited the attached Letter of Transmittal along with a Credit Card Payment Form authorized in the amount of \$2,480.00 for National Phase filing fee and a return postcard with the United States Postal Service as "Express Mail" for mailing to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Dated this 31st day of January, 2005.


Cheryl A. Swanson

Express Mail No: EV 562714059 US

IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE

Applicants: John L. Schenk, George E. Seidel, Tae Kwang Suh
Application Number:
Filed:
Title: Low Pressure Sperm Cell Separation System
TC/A.U:
Examiner:

International Application No: PCT/US2003/024460, Filed 01 August 2003
Original US Application: 60/400,971, Filed 01 August 2002

Assignee: XY, Inc. and COLORADO STATE UNIVERSITY through its agent
Colorado State University Research Foundation
Attorney Docket: XY-LowPressure-USNP
Customer No. 33549

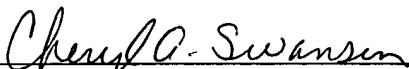
CERTIFICATE OF EXPRESS MAILING

I, Cheryl A. Swanson, hereby certify to the truth of the following items:

1. I am an employee of Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, Colorado 80521.

2. I have this day deposited the attached Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) concerning a filing under 35 U.S.C. 371 (FORM PTO-1390 (REV 12-2004)) with the United States Postal Service as "Express Mail" for mailing to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Dated this 31st day of January, 2005.


Cheryl A. Swanson

Express Mail No: EV 562714059 US

IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE

Applicants: John L. Schenk, George E. Seidel, Tae Kwang Suh
Application Number:
Filed:
Title: Low Pressure Sperm Cell Separation System
TC/A.U:
Examiner:

International Application No: PCT/US2003/024460, Filed 01 August 2003
Original US Application: 60/400,971, Filed 01 August 2002

Assignee: XY, Inc. and COLORADO STATE UNIVERSITY through its agent
Colorado State University Research Foundation
Attorney Docket: XY-LowPressure-USNP
Customer No. 33549

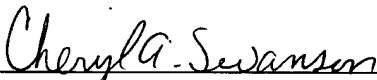
CERTIFICATE OF EXPRESS MAILING

I, Cheryl A. Swanson, hereby certify to the truth of the following items:

1. I am an employee of Santangelo Law Offices, P.C., 125 South Howes, 3rd Floor, Fort Collins, Colorado 80521.

2. I have this day deposited the attached Powers of Attorney from XY, Inc. and COLORADO STATE UNIVERSITY through its agent Colorado State University Research Foundation with the United States Postal Service as "Express Mail" for mailing to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Dated this 31st day of January, 2005.


Cheryl A. Swanson

Express Mail No: EV 562714059 US

IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE

Applicants: John L. Schenk, George E. Seidel, Tae Kwang Suh
Application Number:
Filed:
Title: Low Pressure Sperm Cell Separation System
TC/A.U:
Examiner:

International Application No: PCT/US2003/024460, Filed 01 August 2003
Original US Application: 60/400,971, Filed 01 August 2002

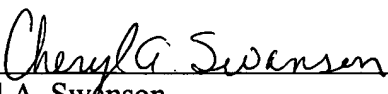
Assignee: XY, Inc. and COLORADO STATE UNIVERSITY through its agent
Colorado State University Research Foundation
Attorney Docket: XY-LowPressure-USNP
Customer No. 33549

CERTIFICATE OF EXPRESS MAILING

I, Cheryl A. Swanson, hereby certify to the truth of the following items:

1. I am an employee of Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, Colorado 80521.
2. I have this day deposited the attached Preliminary Amendment with the United States Postal Service as "Express Mail" for mailing to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Dated this 31st day of January, 2005.


Cheryl A. Swanson

Express Mail No: EV 562714059 US

IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE

Applicants: John L. Schenk, George E. Seidel, Tae Kwang Suh
Application Number:
Filed:
Title: Low Pressure Sperm Cell Separation System
TC/A.U:
Examiner:

International Application No: PCT/US2003/024460, Filed 01 August 2003
Original US Application: 60/400,971, Filed 01 August 2002

Assignee: XY, Inc. and COLORADO STATE UNIVERSITY through its agent
Colorado State University Research Foundation
Attorney Docket: XY-LowPressure-USNP
Customer No. 33549

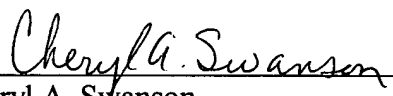
CERTIFICATE OF EXPRESS MAILING

I, Cheryl A. Swanson, hereby certify to the truth of the following items:

1. I am an employee of Santangelo Law Offices, P.C., 125 South Howes, Third Floor, Fort Collins, Colorado 80521.

2. I have this day deposited the attached Application Data Sheet with the United States Postal Service as "Express Mail" for mailing to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

Dated this 31st day of January, 2005.


Cheryl A. Swanson